LISTING OF CLAIMS:

Claims 1-16 are pending. Please cancel claims 1-3, 7, 8 and 12-16 without prejudice or disclaimer and amend claims 4 and 9 as shown.

This listing of claims will replace all prior listings of claims in the application.

Claim 1 (Canceled)

Claim 2 (Canceled)

Claim 3 (Canceled)

Claim 4 (Currently Amended): An exposure apparatus ~~according to claim 1, further~~ that illuminates a pattern on an original form, introduces light from the pattern to a plate, and exposes the plate, said exposure apparatus comprising:

at least one optical element;

at least one forcing member that applies a force to the at least one optical element in a non-contact manner;

a wave front aberration measuring unit for measuring wave front aberration of a projection optical system that includes at least one optical element; and

a controller for controlling said forcing member based on a measurement result of said wave front aberration measuring unit.

Claim 5 (original): An exposure apparatus according to claim 4, wherein said controller calculates a correction amount to the gravity deformation of the at least one optical element and controls said forcing member based on the measurement result.

Claim 6 (original): An exposure apparatus according to claim 4, further comprising a plate driving stage for driving the stage, wherein said wave front aberration measuring unit is provided on the plate driving stage.

Claim 7 (Canceled)

Claim 8 (Canceled)

Claim 9 (Currently Amended): An exposure apparatus ~~according to claim 7, further~~ that illuminates a pattern on an original form, introduces light from the pattern to a plate, and exposes the plate, said exposure apparatus comprising:

at least one optical element;

at least one forcing member that applies a force to the at least one optical element in a non-contact manner;

a position adjusting unit for adjusting a position of the at least one optical element in a non-contact manner;

a wave front aberration measuring unit for measuring wave front aberration of a projection optical system that includes at least one optical element; and

a controller for controlling said position adjusting unit based on a measurement result of said wave front aberration measuring unit.

Claim 10 (Original): An exposure apparatus according to claim 9, wherein said controller calculates a correction amount to the gravity deformation of the at least one optical element and controls said position adjusting unit based on the measurement result.

Claim 11 (Original): An exposure apparatus according to claim 9, further comprising a plate driving stage for driving the stage, wherein said wave front aberration measuring unit is provided on the plate driving stage.

Claim 12 (Canceled)

Claim 13 (Canceled)

Claim 14 (Canceled)

Claim 15 (Canceled)

Claim 16 (Canceled)